

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application : CHRISTIAN DURIEZ, ET AL.  
Application No. :  
Filed : Herewith  
Confirmation No. :  
For : METHOD AND DEVICE FOR THE INTERACTIVE  
SIMULATION OF CONTACT BETWEEN OBJECTS  
Examiner :  
Attorney's Docket : BDL-506XX

TC Art Unit:

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I hereby certify that this correspondence is being deposited with the  
United States Postal Service as first class mail in an envelope  
addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA  
22313-1450 on \_\_\_\_\_.

By: \_\_\_\_\_  
Beverly E. Hjorth  
Registration No. 32,033  
Attorney for Applicant(s)

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INFORMATION DISCLOSURE STATEMENT

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

It is desired to cite for the record in this application the  
enclosed references listed on the attached copy of PTO Form #1449. The  
paragraph(s) marked below are applicable to this Information Disclosure  
Statement.

- [X] (1) Pursuant to 37 C.F.R. § 1.97(b)(1) and (2), the attached  
Information Disclosure Statement is being filed within three  
months of the filing date of the above identified national  
application or within three months of the date of entry of the  
national stage as set forth in 37 C.F.R. § 1.491 of the above  
identified application. Accordingly, applicant(s) believes that  
no fee or statement under 37 C.F.R. § 1.97(e) is required.

- [ ] (2) Pursuant to 37 C.F.R. § 1.97(b)(3), applicant(s) believes the attached Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits. Accordingly, applicant(s) believes that no fee or statement under 37 C.F.R. § 1.97(e) is required.
- [ ] (3) Pursuant to 37 C.F.R. § 1.97(b)(4), applicant(s) believes the attached Information Disclosure Statement is being filed before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Accordingly, applicant(s) believes that no fee or statement under 37 C.F.R. § 1.97(e) is required.
- [ ] (4) Pursuant to 37 C.F.R. § 1.97(c), the attached Information Disclosure Statement is being filed before the mailing date of a final action or a notice of allowance and is accompanied by:
- [ ] a statement under 37 CFR § 1.97(e); or
  - [ ] the fee set forth in § 1.17(p).

PETITION UNDER 37 CFR § 1.97(d)

- [ ] (5) Pursuant to 37 CFR § 1.97(d), applicant(s) hereby petitions the Commissioner to consider the attached Information Disclosure Statement which is being filed on or before payment of the issue fee. This petition is accompanied by a statement under 37 C.F.R. § 1.97(e) and the petition fee set forth in 37 C.F.R. § 1.17(p).

STATEMENT UNDER 37 C.F.R. § 1.97(e)(1)

- [ ] (6) The undersigned hereby states that each item of information contained in the attached Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

STATEMENT UNDER 37 C.F.R. § 1.97(e)(2)

- [ ] (7) The undersigned hereby states that no item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the attached Information Disclosure Statement was known to any individual designated in 37 C.F.R. §

Attorney Docket No.: BDL-506XX

Filed: Herewith

TC Art Unit:

Confirmation No.:

1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Where the status of the application has changed, unknown to the applicant, such that the boxes checked are no longer applicable, the Commissioner is authorized to accept this submission with any additional fees required by that change charged to Deposit Account No. 23-0804.

The filing of this Information Disclosure Statement is not a representation by the undersigned as to personal knowledge of the contents of every word or phrase of the material enclosed or that reliance on other suitably trained professionals has not been made. The filing of this Information Disclosure Statement is not to be construed to be an admission that the information cited herewith is, or is considered to be, material to patentability as defined in 37 CFR §1.56(b), or that Applicant(s) is(are) unable to provide an affidavit under 37 CFR §1.131 swearing back of such information.

If a search report of a searching agency is enclosed identifying the nature of the relevance of each document, such a designation is deemed to satisfy 37 C.F.R. § 1.98(a)(3) even if in a foreign language because the codes are the same in all languages. However, applicant(s) does not necessarily adopt the position reflected by that report.

These references were cited in an International Search Report (copy enclosed) in application No. PCT/FR2005/000699 filed March 23, 2005.

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IAP9 Rec'd PCT/PTO 22 SEP 2006

Attorney Docket No.: BDL-506XX

Filed: Herewith

TC Art Unit:

Confirmation No.:

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 23-0804. Triplicate copies of this letter are enclosed.

Respectfully submitted,

CHRISTIAN DURIEZ, ET AL.

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Date: September 22, 2006

CLG/mc/341810.1  
Enclosure

<b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				ATTY. DOCKET NO.  BDL-506XX		APPLICATION NO.	
				APPLICANT: Christian Duriez, et al.			
				FILING DATE Herewith		TC ART UNIT	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION/ ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
<b>OTHER DOCUMENTS</b> <i>(including Author, Title, Date, Pertinent Pages, etc.)</i>							
	DEBUNNE G ET AL: "DYNAMIC REAL-TIME DEFORMATIONS USING SPACE & TIME ADAPTIVE SAMPLING", COMPUTER GRAPHICS. SIGGRAPH 2001. CONFERENCE PROCEEDINGS. LOS ANGELES, CA, AUG. 12 - 17, 2001, COMPUTER GRAPHICS PROCEEDINGS. SIGGRAPH, NEW YORK, NY : ACM, US, 12 Août 2001 (2001-08-12), pages 31-36.						
	RUSPINI D C ET AL: "Haptic interaction in virtual environments", INTELLIGENT ROBOTS AND SYSTEMS, 1997. IROS '97., PROCEEDINGS OF THE 1997 IEEE/RSJ INTERNATIONAL CONFERENCE ON GRENOBLE, FRANCE 7-11 SEPT. 1997, NEW YORK, NY, USA, IEEE, US, vol. 1, 7 septembre 1997 (1997-09-07), pages 128-133.						
	KUHNAPFEL U ET AL: "Endoscopic surgery training using virtual reality and deformable tissue simulation", COMPUTERS AND GRAPHICS, PERGAMON PRESS LTD. OXFORD, GB, vol. 24, no. 5, octobre 2000 (2000-10), pages 671-682.						
	BERGEN VAN DEN G: "Efficient Collision Detection of Complex Deformable Models using AABB Trees", JOURNAL OF GRAPHICS TOOLS, ASSOCIATION FOR COMPUTING MACHINERY, NEW YORK; US, vol. 2, no. 4, 6 novembre 1998 (1998-11-06), pages 1-14.						
	BARAFF D: "FAST CONTACT FORCE COMPUTATION FOR NONPENETRATING RIGID BODIES", COMPUTER GRAPHICS PROCEEDINGS. ANNUAL CONFERENCE SERIES. SIGGRAPH, XX, XX, juillet 1994 (1994-07), pages 23-34.						
	PICINBONO G ET AL: "Anisotropic elasticity and force extrapolation to improve realism of surgery simulation" PROCEEDINGS OF THE 2000 IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION, vol. 1, 24 avril 2000 (2000-04-24), pages 596-602.						
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

CLG/mc/341836.1

**REFERENCES FURNISHED BY INTERNATIONAL BUREAU [PCT/FR2006/000699 filed March 23, 2005]**